RAUCKMAN™
Utility Products

One-Piece Tangent Cover

One-Piece Tangent Cover

Tangent covers are for wildlife incident reduction on perching birds and other animals on electric utility pole cross arms.

The covers are molded from an engineered polypropylene flame retardant resin matrix formula.

Tangent covers can easily be installed and removed using a shotgun style hotstick.


Installed W-TCHTC60 Tangent Covers


Easy Installation and Removal

Better Design through Innovation

- Application Voltage up to 38 kV System Voltage
- Self extinguishing UL 94 V-0 flammability rating
- Ultra violet resistant material
- Easy installation and removal
- No springs, latches or hinges


Integral Installation Clips

Center Formed for Insulator Shape

Cat. No. W-TCHT60ST
Universal Application, Straight or Side Tie



Cat. No. W-TCHTC60
Tie-Top C-Neck Insulator



Cat. No. W-TCHV260
For Hendrix Vise-Top Insulator



ORDERING INFORMATION

Catalog No.	Description	Max. Application Voltage	Length	Color	Weight
W-TCHT60ST	One-Piece Tangent Cover, Universal Application, Straight or Side Tie	38 kV	60"	Grey	3.1 lbs.
W-TCHTC60	One-Piece Tangent Cover, Tie-Top C-Neck Insulator	38 kV	60"	Grey	3.1 lbs.
W-TCHV260	One-Piece Tangent Cover, Hendrix Vise-Top Insulator	38 kV	60"	Grey	3.45 lbs.

MATERIAL CHARACTERISTICS

Rauckman Utility Products materials are specifically formulated and compounded for the rigorous requirements of an energized application on an electric utility system. Materials used include base polymer resins supplemented by additives to enhance color, flame retardants, ultra-violet inhibitors, impact modifiers and ozone inhibitors.

The mitigation products listed here are molded from an engineered polypropylene resin matrix identified as formula **RUPP0014**.

Mechanical Characteristic Ratings

▶ Impact Strength, Izod		
Notched 1/8" (3.2 mm) Section:	11.0 ft-lbs/in	ASTM D256
Un-notched 1/8" (3.2 mm) Section:	No Break	ASTM D4812
▶ Tensile Strength:	2500 psi	ASTM D638
▶ Tensile Elongation:	> 100%	ASTM D638
▶ Tensile Modulus:	0.14 x 10^6 psi	ASTM D638
▶ Flexural Strength:	3400 psi	ASTM D790
▶ Flexural Modulus:	0.12 x 10^6 psi	ASTM D790

FLAMMABILITY — UL 94 / IEC 60695

Standard for Safety of Flammability of Plastic Materials for Parts in Devices and Appliances.

Un-Exposed Sample

CLASSIFICATION: V-0

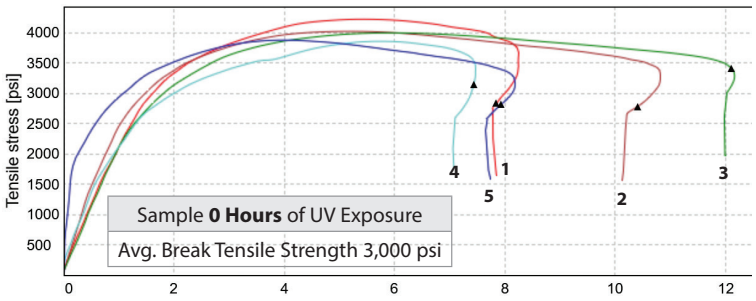
After 1,000 Hours of UV - ASTM D4329/G154

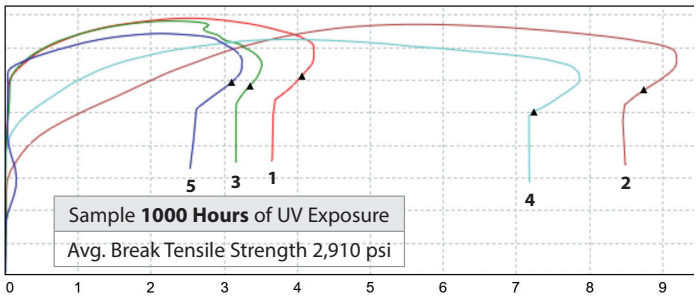
CLASSIFICATION: V-0

Classification Criterion

- Specimen: Length 125 mm (5 in) x Width 13 mm (0.5 in) x Thickness 1.5 mm (1/16 in)
- Procedure: Vertical burn test with 20mm flame applied for two 10 sec intervals separated by the time it takes for flaming combustion to stop after the first application of the flame.
- V-0 Criteria: Burning stops within 10 sec. No flaming drip are allowed

MECHANICAL STRENGTH — ASTM D638





DIELECTRIC STRENGTH — ASTM D149

Standard Test Method for Dielectric Breakdown Voltage and Dielectric Strength of Solid Electrical Insulating Materials at Commercial Power Frequencies.

Un-Exposed Sample

▶ Specimen Thickness:	0.123" (123 mil)
▶ Puncture Voltage:	78.1 kV
▶ Volts / mil:	636 Volt / mil

After 1,000 Hours of UV - ASTM D4329/G154

▶ Specimen Thickness:	0.123" (123 mil)
▶ Puncture Voltage:	73.4 kV
▶ Volts / mil:	598 Volt / mil

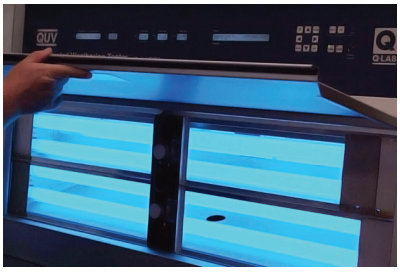
ULTRAVIOLET (UV) TESTING — ASTM D4329 in accordance with ASTM G154

Samples in tests shown above were UV exposed per Standard Practice for Fluorescent UV Exposure of Plastics done in accordance with Standard Practice for Operating Fluorescent UV Lamp Apparatus for Exposure of Nonmetallic Materials.



Cycle Method 1 from ASTM G154

▶ Lamp Type:	Fluorescent UVA-340
▶ Typical Irradiance:	0.89 W/m^2/mm
▶ Approx. Wavelength:	340 nm
▶ Repeating Exposure Cycle:	8 hr UV @ 60° C
	4 hr Condensation @ 50° C



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